CONTENTS

NUMBER 1

D. Kelder, I. Fagervall, C. J. Fowler and S. B. Ross	1	Regulation of the monoamine concentrations in the rat brain by intraneuronal monoamine oxidase
J. Kusche, R. Mennigen, M. Günther and L. Leisten	15	Large bowel tumor promotion by inhibition of mucosal diamine oxidase in rats—I. Morphological aspects
J. Kusche, R. Mennigen, L. Leisten and A. Elbers	27	Large bowel tumor promotion by inhibition of mucosal diamine oxidase in rats—II. Biochemical aspects
E. F. P. Szabó	39	Dimethylaminoethyl acetate—the biogenic amine of the adrenal gland with parasympathetic effects and the neurovegetative transmitter.—The unity of the vegetative nervous system
T. Twardowski and U. Majchrzak-Kuczyńska	51	Evidence for direct interactions between lupin alkaloids and plant ribosomes
M. Candito, E. Souetre, D. Pringuey, E. Salvati, J. Darcourt, P. Chambon and G. Darcourt	59	Plasma norepinephrine during a phase-advance process in depression
A. Norqvist and L. Oreland	65	Localization of a semicarbazide-sensitive serotonin-oxidizing enzyme from porcine dental pulp
M. Tsuruta, T. Kozawa, T. Miyata, T. Yazaki, S. Ito, T. Nagatsu and K. Fujita	75	Differences in the response of circulating noradrenaline and adrenaline in exercise-induced asthma
R. McCulloch, R. Vandongen, L. J. Beilin and A. M. Tunney	81	Reproducibility of sulphate conjugation of orally administered amines in man
T. Ukai, K. Ogawa, T. Satake, N. Kaneda and T. Nagatsu	87	A new HPLC-fluorescence assay of adrenaline in brain: changes of brain adrenaline in spontaneously hypertensive rats
J. Aguilera and F. González Sastre	91	Regional serotonin effect caused by tetanus intoxication in rat central nervous system
J. Clement, S. Simler, L. Ciesielski, S. Gobaille and P. Mandel	95	Involvement of brain biogenic amines metabolism in the susceptibility and severity of audiogenic seizures in three sublines of RB mice differing by their response to acoustic stimulations
A. Siddiqui, D. P. Gilmore and J. Clark	105	Regional differences in the indoleamine content of the rat brain: effects of neonatal castration and androgenization

NUMBER 2

Yu. V. Burov, S. N. Kozhechkin, Z. B. Mazurkevich and S. H. Parvez	115	Thyrotropin releasing hormone (TRH) and modulation of brain mediatory systems
A. Magor, S. Shavit and A. D. Korczyn	129	Adrenergic pupillary responses in the spontaneous hypertensive rat
Y. Maruoka, N. Nishiyama, H. Saito, T. Nakajima and K. Yazawa	135	Determination of catecholamines and their metabolites in brain, heart and adrenal of *Suncus murinus*
D. Ghoshdastidar, R. N. Dutta and M. K. Poddar	145	Short- and long-term effect of lithium on serotonin metabolism in rat brain regions

R. Rupprecht, A. Barocka, C. Rupprecht, M. Rupprecht, G. Beck and **M. Noder**	161	Effects of glucocorticoids on plasma serotonin in depression
W. Kostowski and **P. Krząścik**	169	Research for evaluating the role of dopaminergic mechanisms in the action of valproate
I. Sziráki, M. Sasvári-Székely, P. Kabai, G. Kobor, I. Vadász, A. Lajtha and **C. Vadász**	177	Strain-dependent variations in kinetic properties of mesencephalic tyrosine hydroxylase
A. P. Singh, V. M. L. Srivastava and **H. Parvez**	187	Effect of cadmium and manganese on catecholamine stimulated Na^+, K^+-ATPase of rat brain
	193	Corrigendum

NUMBER 3

J. A. R. Veira, M. Aldegunde, M. J. Perez-Rodriguez, R. Durán, G. Atienza and **I. Miguez**	195	Ontogenic profile of serotoninergic metabolism under prenatal ethanol exposure
K. Andreas	201	Effects of acute and chronic ethanol administration on synaptic processes and pharmacotherapeutic possibilities for the treatment of alcoholism
N. Karasawa, M. Yoshida, M. Sakai, M. Teramura and **I. Nagatsu**	233	Immunohistocytochemical studies of taurine- and GABA-like immunoreactive structures in rat cerebellum
T. Yamamoto and **J. W. Kebabian**	241	[^{125}I]SCH23982 binds to a serotonin receptor (and not to a D-1 dopamine receptor) in the rat choroid plexus
J. M. Feldman and **J. O. Moore**	247	Biogenic amines in carcinoid tumors
C. Ogura, Y. Okuma, A. Tamai and **Y. Osumi**	253	Neurotensin potentiates the release of endogenous dopamine from the isolated rat retina
I. Nagatsu, S. Furune, H. Ichinose, M. Spatz and **T. Nagatsu**	263	Quantitative analysis of reduction of aromatic-L-aminoacid decarboxylase- and tyrosine hydroxylase-like immunoreactivities in the nigrostriatal dopaminergic neurons of MPTP-treated mice
J. W. Van Huysse, R. R. Bowsher, L. R. Willis and **D. P. Henry**	279	The simultaneous measurement of multiple urinary arylalkylamines
L. Fugler-Domenico, C. S. Russell and **A. M. Sapse**	289	*Ab initio* studies on taurine and hypotaurine

NUMBER 4

T. Kozawa, A. Urisu, T. Yazaki, M. Tsuruta, S. Ito, T. Nagatsu and **K. Fujita**	301	Relationship between severity of asthma and response of noradrenaline and adrenaline to exercise
S. Iijima, H. Orimo, H. Ito and **A. Sato**	309	Hypoxia increases extracellular dopamine and acetylcholine in the rat striatum
C. Agrasal, M. Cebeira, J. Fernandez, J. A. Ramos, J. A. F. Tresguerres and **A. I. Esquifino**	315	Possible role of hypothalamic biogenic amines on hyperprolactinemia-induced changes of thyrotropin hormone secretion
J. Odink, F. M. Kramer, E. J. Van Der Beek, J. T. N. M. Thissen, H. J. M. Kempen, H. Van Den Berg, R. J. Egger and **C. J. E. Wientjes**	323	Polyunsaturated fatty acid consumption, plasma cholesterol concentration and neuroendocrine response to mental and physical task load

C. Rodriguez, C. Julien, J. Sacquet, N. Bernard, G. Cuisinaud and **J. Sassard**	341	Intra- and interindividual variability of urinary catecholamines and metabolites in healthy subjects
W. R. Williams and **B. H. Davies**	353	Platelet cyclic GMP release and functional changes induced by biogenic amines and selected drugs
F. López and **E. Aguilar**	363	Dexamethasone blocks the stimulatory effect of serotonin on prolactin secretion
R. Decombes, D.Bentue-Ferrer, J. de Certaines, H. Allain and **J. Van Den Driessche**	369	Early changes of aminergic neurotransmitter and water contents following transient ischemia in the rat brain
H. Ollat, S. Parvez and **H. Parvez**	381	Endogenous morphines and nociception

NUMBER 5

A. A. Vartanian and **G. V. Aprikian**	411	The influence of the ADP-ribosylation of synaptic membrane proteins in neurotransmitter uptake by rat brain synaptosomes
S. Chakrabarti and **M. K. Poddar**	417	Long-term electroacupuncture-induced changes in mammalian central GABA system
M. Ogawa, M. Araki, I. Nagatsu, T. Nagatsu and **M. Yoshida**	427	The effect of 1,2,3,4-tetrahydroisoquinoline (TIQ) on mesencephalic dopaminergic neurons in C57BL/6J mice: immunohistochemical studies—tyrosine hydroxylase
H. Ikeda and **T. Saito**	437	Age-related alterations in the dopamine receptor–adenylate cyclase system of the rat striatum
H. Ikeda and **T. Saito**	451	Age-related alterations of the β-adrenoceptor–adenylate cyclase system of the rat cerebral cortex
V. Casimiri, Y. Kiuchi, P. Elisabeth, S. Parvez and **H. Parvez**	465	The status of uterine energy reserves and catecholamine metabolism activity during food deprivation in late pregnancy
G. W. Mellor, G. Gallacher and **J. Landon**	473	Specific antibodies to normetanephrine and metanephrine via synthesis of protected derivatives
L. Oreland, A. Stenström and **Y. Arai**	487	Studies on monoamine oxidase activity within serotonergic synaptosomes from rat forebrain
Y. J. Ganem, J. Callebert, M. C. Darmon, J. Lasneret, S. Hosoda, J. Mallet, J. M. Launay and **C. Dreux**	495	*Mastomys natalensis* bearing carcinoid tumors and heterotransplanted nude mice: whole blood serotonin and histamine levels, tryptophan-hydroxylase expression

NUMBER 6

M. E. Ferioli, R. Candiani, E. Rocca and **G. Scalabrino**	513	Changes in inhibition of *S*-adenosyl-L-methionine decarboxylase in regenerating rat liver
C. Julien, C. Barres, J. Sacquet, P. Kandza, G. Cuisinaud, M. Vincent and **J. Sassard**	525	Urinary catecholamines and blood pressure in genetically normotensive and hypertensive rats
C. Julien, J. Sacquet, G. Cuisinaud and **J. Sassard**	535	Urinary catecholamines and their metabolites in chemically sympathectomized rats

G. Atienza, M. D. Andres and **M. Aldegunde**	543	Brain serotonin turnover in short-term streptozotocin diabetic rats
I. Fukasawa, Y. Kiuchi, F. Yamada, M. Hashimoto, K. Oguchi and **H. Yasuhara**	549	The central mechanism of the hypotensive effects of clorgyline and deprenyl in spontaneously hypertensive rats
D. Nakahara, N. Ozaki and **T. Nagatsu**	559	A removable brain microdialysis probe unit for *in vivo* monitoring of neurochemical activity
N. Hamaue, M. Minami, H. Togashi, H. Saito and **S. H. Parvez**	565	Correlation of renal dopa-decarboxylase (DDC) activity with plasma prolactin and dopamine levels in pregnancy
T. Endo, M. Minami, H. Saito, N. Yamazaki, M. Matsumoto, S. Takeo and **S. H. Parvez**	571	Significance of sulfate conjugated dopamine, epinephrine and norepinephrine in patients with congestive heart failure and chronic hemodialysis: *in vitro* correlations
S. Biswas and **M. K. Poddar**	581	Effect of higher environmental temperature on diazepam-induced changes in brain regional GABA
H. Shimizu, Y. Shimomura, Y. Uehara, S. Takahashi, I. Kobayashi and **S. Kobayashi**	591	Alteration of striatal monoamine metabolism in the early stage of experimental diabetes
C. Gopalan, D. P. Gilmore, C. H. Brown and **C. A. Wilson**	597	Effects of opiates on biogenic amine turnover in specific hypothalamic areas on the afternoon of pro-oestrus in the rat—I. Catecholamines
C. Gopalan, D. P. Gilmore, C. H. Brown and **A. Leigh**	607	Effects of opiates on biogenic amine turnover in specific hypothalamic areas on the afternoon of pro-oestrus in the rat—II. Serotonin